

MAKHANEK, N.G.; KUKARKIN, A.S.

High output blast furnace operations. Izv. vys. ucheb. zav.; chern.
met. 5 no.5:37-43 '62. (MIRA 15:6)

1. Ural'skiy politekhnicheskii institut.
(Blast furnaces)

KUKARKIN, A. S.; KITAYEV, B. I.

Bridging of the melt in a layer of blast furnace charge. Izv.
vys. ucheb. zav.; Chern. met. 5 no.12:20-28 '62.
(MIRA 16:1)

1. Ural'skiy politekhnicheskiy institut.

(Blast furnaces—Models) (Gas dynamics)

KUKARKIN, A.S.; KITAYEV, B.I.

Studying the sources of hot blast pressure pulsation on
blast furnace tuyeres. Izv. vys. ucheb. zav.; chern. met.
6 no.2:31-38 '63. (MIRA 16:3)

1. Ural'skiy politekhnicheskiy institut.
(Blast furnaces)
(Gas flow)

35391 O Napravlenii Plemennoy Rabotys Pomesyami Krupnogo Rogatogo Skota V Novosibirskoy Oblasti. V SB:Michurinskuyu Nauku-V Praktiku Zhivotnovodstva. Novosibirsk, 1949, S. 53-70

SO: Letopis' Zhurnal'nykh Statey Vol. 34, Moskva, 1949

RUZIKAL', Boris V.

Physical variable stars Moskva, Glav. red. tekhn.-teoret.
lit-ry, 1957.

KUKARKIN4B8V8

600

1. KUKARKIN, B.V.

2. USSR (600)

"Selective and total light absorption in the plane of the milky way," Astron. Zhur., 17, No. 1, 1940. Institute imeni Sternberg, Moscow. (submitted Oct 1939)

9. Report U-1518, 23 Oct 1951

KUKARKIN4BSV8

600

1. KUKARKIN, B.V.

2. USSR (600)

"Classification of variable stars," Astron. Zhur., 17, No.2, 1940. Institute imeni Shternberg. (submitted Feb. 1940, Moscow)

9. [REDACTED] Report U-1518,23 Oct 1951

KUKARKIN, B. V.

"Optical Depth of Selective Absorption of an Elementary Dark Nebula," Dok. AN,
42, No. 6, 1943

KUKARKIN, B. V. and P. P. Parenago

"Recurrent New Stars," 1947, for which a 3,000 ruble prize from the Dept. of Physico-Mathematical Sciences, was awarded.

KUKARKIN, B. V., Docent

"Variable Stars and Structure of Star Systems." Sub 26 Feb 47, Moscow
Order of Lenin State U imeni M. V. Lomonosov

Dissertations presented for degrees in science and engineering in Moscow
in 1947 DOCTORATE IN PHYSICO-MATHEMATICAL SCIENCES

SO: Sum No. 457, 18 Apr 55

A

752

1st AND 2ND EDITIONS
PROCESS AND PROPERTIES INDEX
100 AND 8TH EDITIONS

2004. Variable stars and the structure of stellar systems. KUKARIN, B. V. *Astron. J., USSR, 24 (No. 5) (Sept.-Oct., 1947) in Russian. English summary in Astron. News Letter (Harvard) (No. 37).*— Summary of the author's investigations of statistical characteristics of variable stars. Magnitude-period relations and luminosity functions are examined, and the results discussed on Blaauw's hypothesis of two stellar populations. Galactic cluster-type variables may, it is suggested, have disappeared from globular clusters. Various sub-groups of long-period variables and outbursts are indicated. Differences in density distribution may be correlated with the ages of the various systems. A position for the galactic centre is derived. M. W. O.

ASR-51A METALLURGICAL LITERATURE CLASSIFICATION

100000 04	100000 041 000 001	010110101
100000 04	100000 041 000 001	010110101

КУРЯКОВ, Б. В., со.

Instructions for observations of variable stars. Pod red. B. V. Kukarkina. Moskva, Izd-vo Akademii nauk SSSR, 1948. 15 p.

FUFARKIN, B. V.

A general catalog of variable stars. Moskva, Izd-vo Akademii nauk SSSR, 1948.
527 p. (49-18397)

QB835.K8

KUKARKIN, B.V.

Kukarkin, B.V. "Variable stars," in symposium: *Astronomiya v SSSR
zatridsat' let*, Moscow-Leningrad, 1948, p. 152-64

SO: U-2888, *Letopis Zhurnal'nykh Statey*, No. 1, 1949

1. KUKARKIN, B. V.
2. USSR (600)
4. Physics and Mathematics
7. Investigation of the Structure and Development of Celestial Systems on the Basis of Study of Variable Stars, Kukarkin, B. V. (Moscow-Leningrad, State Technical Press, 1949). Reviewed by Shayn, G. A., Sov. Kniga, No 6, 1950.
9. REDACTED Report U-3081, 16 Jan 1953, Unclassified.

KUKAREN, B. V.

First supplement to the first edition of the General catalog of variable stars.
Moskva, Izd-vo Akademii Nauk SSSR, 1949. 45 p.

KUKARKIN, B. V. (Editor)

"Variable Stars", Bulletin of Astronomy Council, Academy of Sciences USSR, Moscow/
Leningrad. Vol. VII, No. 1, 67, 56 pp, 1949.

KUKARKIN, B. V.

Variable Stars", Bulletin of Astronomy Council, Academy of Sciences USSR, Moscow/
Leningrad. Vol. VII, No. 2, (68), 60 pp, 1949.

PARENAGO. P.-P., KUKARKIN, B.-V., FLORYA: N. F.

Stars - Clusters

System of star clusters. Trudy GAISH 16 no. 1, 1949.

9. Monthly List of Russian Accessions, Library of Congress, May 195~~8~~, Uncl.
2

KUKARKIN, B. V.

Stars, Variable

Investigation of variable stars in fields 6 and 15,; Trudy GAISH 16 no. 1, 1949.

Monthly List of Russian Accessions, Library of Congress, May 1952.
Unclassified.

KUKARKIN, B.V.; PARENAGO, P.P.; SHEVCHENKO, G.N., tekhnicheskiy redaktor

[Second supplement to the first edition of the general catalog of variable stars; containing data on 850 variable stars noted in 1949 and 1950, with more precise data on 302 earlier noted variable stars] Vtoroe dopolnenie k pervomu izdaniyu obshchego kataloga peremennykh zvezd, soderzhashchee svedeniya o 850 peremennykh zvezdakh, oboznachennykh v 1949 i 1950 gg., a takzhe utochenennye svedeniya o 302 ranee oboznachennykh peremennykh zvezdakh. Moskva, Izd-vo Akademii nauk SSSR, 1950. 70 p. (MLRA 8:7)

(Stars, Variable)

KUKARKIN, B.V.; PARENAGO, P.P.; SHEVCHENKO, G.N., tekhnicheskiy redaktor.

[Third supplement to the first edition of the general catalog of variable stars, containing data on 997 variable stars noted in 1951, with more precise data on 269 earlier noted variable stars] Tret'e dopolnenie k pervomu izdaniyu obshchego kataloga peremennykh zvezd, soderzhashchee svedeniya o 997 peremennykh zvezdakh, oboznachennykh v 1951 g., a takzhe utochnennye svedeniya o 259 ranee oboznachennykh peremennykh zvezdakh. Moskva, Izd-vo Akademii nauk SSSR, 1951. 93 p. (MIRA 8:7)
(Stars, Variable)

KUKARKIN, B.V.; PARENAGO, P.P.; YEFREMOV, Yu.I.; KHOLOPOV, P.N.

[Catalog of stars suspected of being variable, containing information on 5835 variable stars discovered but not assigned a definitive symbol before 1951, and on 2299 stars whose variability is dubious] Katalog zvezd, zapodozrennykh v peremennosti; soderzhashchii svedeniia o 5835 peremennykh zvezdakh, otkrytykh i ne poluchivshikh okonchatel'nogo oboznachenia do 1951 goda, i o 2299 zvezdakh, peremennost' kotorykh somnitel'na. Moskva, Izd-vo Akademii nauk SSSR, 1951. 239 p. (MLBA 6:7)

1. Akademiya nauk SSSR i gosudarstvennyy astronomichenkiy institut imeni P.K.Shternberga. (Stars, Variable--Catalogs)

KURARKIN, S. V.

Science

Structure and development of the celestial world, Moskva, (Pravda), 1951.

9 Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

KUKARKIN, B. V.

B. V. Kukarkin

Studies of structure and development of star-systems on the basis of the study of changing stars.

Prilozh.

4, 1951, 90

From: D.S.I.R. Trans. con. list of R/ Per. No. 30, Sept. 1951, p. 52

KUKARKIN, B. V.

Stars, Variable

"Investigation of structure and development of the star system on the basis of the study of variable stars." (Reviewed by P. P. Parenago). Per.zvezdy 8 no. 1 (1951)

9. Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

AKHARIN, B. V., KOLIKOVSKIY, P. G.

Stars, Variable

Morphological peculiarities of long-period Cepheids in various star systems. Per.zvezdy
8 no. 1 (1951)

9. Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

KUKARKIN, B. V.

Stars, Variable

"List of 1440 new variable stars with adductions about the character of their variability."
(Reviewed by B. V. Kukarkin). Per.zvezdy 8 no. 1 (1951)

9. Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

KUFANKIN, B. V.

Stars, Variable

AC Geminorum, Per. zvezdy 8, No. 4, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KUKARKIN, B. V.

Stars, Variable

Variation in the period of the long-period Cepheid SV Vulpeculae. Per. zvezdy 8, No. 4, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KUKARKIN, B.V.; PARENAGO, P.P., YEFREMOV, Yu.I. KHOLOPOV, P.N.;
POLYAKOVA, T.V., tekhnicheskiiy redaktor.

[Fourth supplement to the first edition of the general catalog of variable stars, containing data on 105 variable stars noted in 1952, with more precise data on 613 earlier noted variable stars.] Chetvertoe dopolnenie k pervomy izdaniyu obshchego kataloga peremennykh zvezd, soderzhashchee svedeniia o 105 peremennykh zvezdakh, oboznachennykh v 1952 g., a takzhe utochnennye svedeniia o 613 ranee obozhashchennykh peremennykh zvezdakh. Moskva, Izd-vo Akademii nauk SSSR, 1952. 86 p.
(Stars, Variable) (MLBA 8:7)

KUKARKIN, B. V. TROP

PA 244T79

USSR/Astronomy - Cosmogony, Soviet

Jul 52

"Leading Cosmogonical Science" Prof B. V. Kukarkin

"Nauka i Zhizn" No 7, pp 29-32

Eulogizes new Soviet materialistic cosmogony as opposed to reactionary theory of the West, which had relied on false hypotheses of Jeans and physics of Weizsaecker applied to artificial universe, until V. G. Fesenkov, V. A. Ambartsumyan, and O. Yu. Schmidt created the right theory, based on philosophy of Marx, Engels, Lenin and Stalin.

244T79

KUKARKIN, E. V.

Stars, Variable

Long-period Cepheid CP Cephei. Per. zvezdy 8, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KUKARKIN, B. V.

Stars, Variable

New eclipsing variable star EK Lacertae. Per. zvezdy 8, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KUKARKIN, B. V.

Cosmogony

Advanced cosmogonic science. Nauka i zhizn' 19, no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952. Unclassified.

KUKARKIN, B. V. (Prof)

USSR/Astronomy - Conference

Jan/Feb 52

"Chronicle: Decision of Enlarged Session of Presidium of Astronomical Council of the Academy of Sciences USSR on 22 January 1952"

"Astron Zhur" Vol XXIX, No 1, pp 101, 102

Professor B. V. Kukarkin, Acting Pres, Astr Council of Acad Sci USSR, protested against decision of International Astr Union to have the next international congress in Rome in Sep after having refused to meet in Leningrad in 1951 or 1952. Under pressure of US and Britain an "iron curtain" is erected against international relations.

202T12.

KUKARKIN, V.

Stars - Distribution

Meeting on questions of star associations and distribution of hot giants. Astron.
tsir. no. 122, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952. Unclassified.

KUKARKIN, B. V.

Peremennye zvedzy [Variable stars]. Moskva, AN SSSR, [1953].

SO: Monthly List of Russian Accessions, Vol. 6 No. 12 March 1954.

4000000, 0.0.
KUKARKIN, B.V.; PARENAGO, P.P.; YEFREMOV, Yu.I.; KHOLOPOV, P.N.

[Fifth supplement to the first edition of the general catalog of variable stars, containing data relative to 70 variable stars appearing in 1953 plus more precise data on 324 variable stars appearing earlier] Piatoe dopolnenie k pervomu izdaniyu obshchego kataloga peremennykh zvezd, soderzhashchee svedeniia o 70 peremennykh zvezdakh, oboznachennykh v 1953 g., a takzhe utochnennye svedeniia o 324 ranee oboznachennykh peremennykh zvezdakh. Moskva, Izd-vo Akademii nauk SSSR, 1953. 51 p. (MLRA 7:9)
(Stars, Variable)

SADYKOV, Kh.U.; KUKARKIN, B.V., professor, redaktor. (415)

[Biruni and his works in astronomy and mathematical geography] Biruni i ego raboty po astronomii i matematicheskoi geografii. Pod red. B.V.Kukarkina. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry. 1953. 151 p. (MLRA 7:6) (Biruni, 9737-1048)

LAVRENT'YEV, M.A., akademik, redaktor; AMBARTSUMYAN, V.A., akademik;
KUKARKIN, B.V., doktor fiziko-matematicheskikh nauk; PARENAGO, P.P.,
chlen-korrespondent AN SSSR; LEVIN, B.Yu., kandidat fiziko-matema-
ticheskikh nauk; MASEVICH, A.G., kandidat fiziko-matematicheskikh
nauk, redaktor.

[Transactions of the 2nd conference on problems of cosmogony,
19-22 May 1952] Soveshchanie po voprosam kosmogonii. Trudy.
Red. koll. M.A. Lavrent'ev i dr. Moskva, 1953. 582 p. (MLRA 7:5)
(Cosmogony) (Stars)

KUMARKIN, B.

"Nauka o proiskhozhdenii mirov" (Science of the origin of the planets),
Tekhnika-Molodezhi, Vol. 21, No. 5, May, 1953, pp. 11-13.

KUKARKIN, E.

"Observatoriya zavtrashnego dnya" (Observatory of tomorrow),
Tekhnika-Molodezhi, Vol. 21, No. 5, May, 1953, p. 14.

KUKHARKIN, B.V., doktor fiziko-matematicheskikh nauk.

Two international astronomy conferences. Vest.AN SSSR 23 no.10:79-84 0 '53.
(MLRA 6:11)

(Astronomy--Congresses)

KUKARKIN, B.V.; KUKARKINA, N.P.

SS Lyrae. Astron. tsir. no.137:9-10 ap '53.

(MLRA 6:8)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga.
(Stars, Variable)

KUKARKIN, B.V.; PARENAGO, P.P.

[Sixth supplement to the first edition of the general catalog of variable stars] Shestoe dopolnenie k pervomu izdaniyu Obshchego kataloga peremennykh zvezd. Moskva, 1954. 70 p. (MLRA 7:11)
(Stars, Variable)

KUKARKIN, B.V., doktor fiziko-matematicheskikh nauk, redaktor; PA-
RITSKIY, N.N., kandidat fiziko-matematicheskikh nauk, redaktor;
BARANOV, V.I., doktor fiziko-matematicheskikh nauk, redaktor;
BELOUSOV, V.V., redaktor; LEVIN, B.Yu., kandidat fiziko-ma-
tematicheskikh nauk, redaktor. MASEVICH, A.G., kandidat fiziko-
matematicheskikh nauk, redaktor; SAFRONOV, V.S., kandidat fi-
ziko-matematicheskikh nauk, redaktor.

[Problems in cosmogony] Voprosy kosmogonii. Moskva, Izd-vo
Akademii nauk SSSR. Vol 2. 1954. 363 p. (MLRA 7:8)

1. Chlen-korrespondent AN SSSR (for Belousov) 2. Akademiya
nauk SSSR.
(Cosmogony)

KUKARKIN, B.V.

Some questions on the origin and development of stars and stellar systems. Astron. zhur. 31 no.6:489-498 N-D '54. (MIRA 8:1)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga.
(Stars)

KUKARKIN, B.V.

Distribution in space of Mira Cetae variable stars in relation to
their morphological characteristics. Astron. tsir. no. 152:10-11
S '54. (Stars, Variable) (MLRA 8:3)

KUKARKIN, B.V.

Process of star formation in the spherical component of stellar
systems. Astron. tsir. no. 152:12-13 S '54. (MLRA 8:3)
(Stars)

KUZARKIN, B.V.

Multiplicity of zero points on the period-luminosity curve
for long-and short-period Cepheids. Astron. tsir. no.155:
12-13 D '54. (MLR 8:6)

1. Moskow (GAISH)
(Stars, Variable)

KUKARKIN, B.V., redaktor; PARENAGO, P.P.; YEFREMOV, Yu.I.; KHOLOPOV, P.N., GUROV, K.P., redaktor; ACTAF'YEVA, G.A., tekhnicheskiiy redaktor.

[Seventh supplement to the first edition of the General catalog of variable stars] Sed'moe dopolnenie k pervomu izdaniyu obshchego kataloga peremennykh zvezd. Moskva, Izd-vo Akademii nauk SSSR, 1955. 71 p.

(Stars, Variable--Catalogs)

(MLRA 8:12)

AMBARTSUMYAN, V.A., akademik, redaktor; MUSTEL', E.R., redaktor;
PARENAGO P.P., redaktor; KUKARKIN, B.V., doktor fiziko-mate-
maticheskikh nauk; MARTYNOV, D.Ya., doktor fiziko-matemati-
cheskikh nauk, redaktor; MASEVICH, A.G. kandidat fiziko-
matematicheskikh nauk, redaktor; LEYKIN, G.A. kandidat
fiziko-matematicheskikh nauk, redaktor; YEFREMOV, Yu.I.,
redaktor; POLYAKOVA, T.V., tekhnicheskii redaktor.

[Transactions of the Fourth Conference on Problems of Cosmogony;
non-stationary stars] *Trudy chetvertogo soveshchaniya po voprosam
kosmogonii; nestatsionnaryye svezdy. Moskva, Izd-vo Akademii nauk
SSSR, 1955. 512 p.* (MLRA 8:12)

1. Chlen-korrespondent AN SSSR (for Mustel' and Parenago)
2. *Soveshchaniye po voprosam kosmogonii. 4th Moscow, 1954.*
(Stars)

KUKARKIN, B. V.

USSR/ Scientific Organization - Conferences

Card 1/1 Pub. 124 - 35/45

Authors : Kukarkin, B. V., Dr. of Phys-Math. Sc.

Title : The study of variable stars

Periodical : Vest. AN SSSR 2, 96-98, Feb. 1955

Abstract : The numerous problems involved in the study of variable stars were analyzed during the fourth session on cosmogony, held in Moscow during October 26-29, 1954. The progress made by Soviet astronomers in studying variable stars of various types and the application of the results obtained toward the solution of cosmogonic problems was outlined.

Institution :

Submitted :

KUKARKIN, B.V.; PARENAGO, P.P.; YEFREMOV, Yr.; KHOLOPOV, P.N.;
GUROV, K.P. redaktor izdatel'stva; POLYAKOVA, T.V. tekhnicheskiiy redaktor.

[Eight supplement to the first edition of the general catalog of variable stars containing information on 629 variable stars recorded in 1956] Vos'moe dopolnenie k pervomu izdaniyu obshchego kataloga peremennykh zvezd, soderzhashchee svedeniya o 629 peremennykh zvezdakh, oboznachennykh v 1956 g. Moskva, Izd-vo Akad. nauk SSSR, 1956. 61 p. (MLRA 10:6)

(Stars--Catalogs) (Stars, Variable)

KUKARKIN, S.V.

Simple method for determining stellar magnitudes on photographic plates in comparison with standard stars. Astron. tsirk. no. 173; 9-10 0 '56. (MIRA 10:1)

1. Astronomicheskiy institut imeni Shternberga, Moskva.

(Stars--Magnitudes)

KUKARKIN, B.V.

Fluctuations in the periods of short-period Cepheids. Astron.
tsirk.no.173:10-11 O '56. (MLRA 10:1)

1. Astronomicheskiy institut imeni P.K.Shternberga, Moskva.
(Stars, Variable)

KUKARKIN, B.V.

Two eclipsing variables. Astron.tsirk. no.174:20 N '56.

1. Astronomicheskii institut im. Shternberga, Moskva. (MIRA 10:3)
(Stars, Variable)

KUKARKIN, B.V.

Maxima of some Mira Ceti-type stars. Astron.tsirk. no.174:20-21
N '56. (MLRA 10:3)

1. Astronomicheskiy institut im.Shternberga, Moskva.
(Stars, Variable)

KUKARKIN, B.V.

Eighteen Mira Ceti-type stars in Gemini. Per. zvezdy 12
no.1:33-43 S '57 [Publ.1959.] (MIRA 13:5)

1. Gosudarstvennyy Astronomicheskiy institut im. P.K.
Shternberga, Moskva.
(Stars, Variable)

KUZARKIN, B.V.

Sergei Nikolaevich Blazhko; obituary. Per. zvezdy 11 no.2:63-64
Ap '57. (MLRA 10:7)
(Blazhko, Sergei Nikolaevich, 1870-1956)

KUKHARIN

Name : KUKHARIN, B. V.

Title : Professor, Doctor of Physics and Mathematics

Remarks : Professor Kukharin is the author of an article entitled "Optical Observation of the Earth Satellite". The article discusses the techniques of optical and photographic observations of the satellite, and problems of space research, such as the measurement of the thickness of the atmosphere and the determination of the degree of deviation from theoretical flight paths for artificial satellites, which can be solved by these observations. It also mentions the Soviet Union's plans for new satellites equipped with optical instruments to investigate the moon's surface, the radiation of celestial bodies, etc.

Source : P: Wissen und Leben (Leipzig), No. 12, 1957, Special Appendix, "Der Erste Schritt in den Kosmos" (First Step into Space), p. 19

KUKARKIN, B.V.

Five variable stars in the vicinity of the globular cluster
NGC 5466. Per.svezdy 12 no.1;50-52 S '57. [Publ.1959.]
(MIRA 13:5)

1. Gosudarstvennyy astronomicheskii institut im. P.K.Shternberga,
Moskva.

(Stars, Variable)

KUKARKIN, B.V.

Eclipsing variable QQ Cassiopeiae. Per.zvezdy 12 no.1:
78-80 S '57 [Publ.1959.] (MIRA 13:5)

1. Gosudarstvennyy Astronomicheskii institut im. P.K.
Shternberga, Moskva.
(Stars, Variable)

KUKARKIN, B.V. Professor.

Guests of Chinese astronomers. Vest. AN SSSR 27 no.5:66-67 My '57.
(China--Astronomy) (MLRA 10:6)
(China--Relations (General) with Russia)
(Russia--Relations (General) with China)

KUKARKIN, B.V.

KUKARKIN, B.V.

Eclipsing variable star V 889 Aquilae with high eccentricity. Astron.
tsir. no.176:13 Ja '57. (MIRA 10:6)

1. Gosudarstvennyy astronomicheskiy institut im. Shternberga, Moskva.
(Stars, Variable)

KUKARKIN, B.V., (Moskva); LI TSZIN, (Nankin); SHEN' LYAN-CHZHAO, (Nankin).

Maxima periods of some Mira variables . Astron. tsir. no.177:14 P '57.
(Stars, Variable) (MIRA 10:6)

KUKARKIN, B.V., (Moskva); LI TSZIN, (Nankin); SHEN' LYAN-CHZHAO, (Nankin).

Eighty-eight variable stars in the Orion nebula. Astron. tsir. no.177:
14-15 P '57.

(Stars, Variable)

(MIRA 10:6)

KUKARKIN, B.V., (Moskva); LI TSZIN, (Nankin); SHEN' LYAN-CHZHAO, (Nankin).

Variability of stars having hydrogen emission lines in the Orion.
Astron. tsir. no.177:16 P '57. (MIRA 10:6)
(Stars, Variable)

KUKARKIN, B.V.

Two eclipsing variable stars. Astron. tsir. no.181:22 Jo '57.
(MIRA 13:3)

1.Astronomicheskij institut im. Shternberg.
(Stars, Variable)

KUKARKIN, B. V.

Maxima of 16 Mira Ceti-type stars, Astron. tsir. no. 182:13-14 Jo
'57. (MIRA 11:3)

1. Astronomicheskiy institut im. Shternberga, Moskva.
(Stars, Variable)

KUKARKIN, B.V.

Six variable stars discovered by Romano. Astron. tsir. no.182:16
Je '57. (MIRA 11:3)

1. Astronomicheskiy institut im. Shternberga, Moskva.
(Stars, Variable)

KUKARKIN, B.V.

Brilliant U Geminorum-type variable star. Astron. tsir. no. 186:19
N '57. (MIRA 11:4)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga,
Moskva.
(Stars, Variable)

K
KUKARIN, B.V.
^

[General catalog of variable stars, containing data on 14,708 variable stars discovered and designated before 1958] Obshchiy katalog peremennykh zvezd. 2. id. soderzhashcheye svedeniya o 14708 peremennykh zvezdakh, otkrytykh i oboznachennykh do 1958 goda. Moskva, Izd-vo Akademii nauk SSSR, 1958. 2 v. 27 p.

(Stars, Variable--Catalogues)

(MIRA 12:1)

YEFREMOV, Yu.I.; KHOLOPOV, P.N.; KUKARKIN, B.V., otv. red.; POLYAKOVA, T.V.,
tekhn. red.

[Ninth supplement to the first edition of the general catalog
of variable stars, containing information on 337 variable stars
recorded in 1957] Deviatoe dopolnenie k pervomu izdaniyu obshchego
kataloga peremennykh zvezd, soderzhashchee svedeniya o 337
peremennykh zvezdakh, oboznachennykh v 1957 g. Moskva, Izd-vo
Akad. nauk SSSR, 1958. 46 p. (MIRA 11:12)
(Stars, Variable--Catalogs)

PEREL', Yuriy Grigor'yevich; KUKARKIN, B.V., prof., red.; YERPYLEV, N.P.,
red.; KRYUCHKOVA, V.N., tekhn.red.

[Development of ideas about the universe] Razvitie predstavlenii
o vselennoi. Pod red. B.V.Kukarkina. Moskva, Gos.izd-vo fiziko-
matem. lit-ry, 1958. 352 p. (MIRA 12:1)
(Cosmology)

Voprosy kosmogonii, t. 6 (Problems in Cosmogony, Vol. 6) Moscow, Izd-vo AN SSSR, 1958. 367 p. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Astronomicheskii sovet.

ARTICLES

Magnitskiy, V.A. On the Origin and Evolution of Continents and Oceans	5
Baranov, V.I. Latest Data in Determining the Earth's Absolute Age	39
Levin, B. Yu. History of the Moon's Rotation and the Rheological Properties of Its Material	56
Safronov, V. S. On the Growth of Terrestrial Planets	63
Alifan, A. On the Origin of the Solar System	78
Kipper, A. Ya. and Ya. M. Tiyt. Disintegration Processes in Light Quanta and Their Significance in the Physics of Gaseous Nebulae	98
Sobolev, V.V. Physics of Planetary Nebulae	112
Gursadyan, G.A. Dynamics of Planetary Nebulae	157
Minin, I.M. Light Pressure and the Dynamics of Planetary Nebulae	211
Agekyan, T.A. Interaction of Stars with Diffuse Matter	221
Kaplan, S. A. Magnetic Gas Dynamics and Problems of Cosmogony	238
Parikhonenko, F.G. On the Preservation of Continuance in the Formation of Elements	265
Parikhonenko, F.G. Determining the Location of an "Equiponderant" Thermomolecular Medium	269
Fikel'ner, S.B. On the Theories of the "Equiponderant" Origin of Elements	273
Naan, G.I. The State of Cosmogony Today	277

REPORTS

Mukartip, B.Y. Conference on Variable Stars Sponsored by the Hungarian Academy of Sciences and Held in Budapest on August 23-28, 1956	333
Terletskiy, Ya. P. Symposium on Problems in Electromagnetic Phenomena in Cosmic Physics	334
Kholopov, P.M. Conference on Non-Fixed Stars	338
Verontsov-Vel'yaminov, B.A. Conference on the Physics of Planetary Nebulae	354
Maskol, Ye. L. Conference of the Committee on Cosmogony Devoted to Examining the Possibilities of the Development of Extragalactic Astronomy and Cosmogony	359
Taitain, P.A. The Sixth Cosmogonical Conference	361

AUTHOR: Kukarkin, B.V., Professor

26-58-2-18/48

TITLE: Optical Methods for the Observation of Artificial Earth Satellites (Opticheskiye metody nablyudeniya iskusstvennykh sputnikov zemli)

PERIODICAL: Priroda, 1958, Nr 2, pp 83-84 (USSR)

ABSTRACT: Optical observation of satellites becomes very important when the radio-transmitter ceases to send out signals and especially in the case of carrier rockets not fitted with transmitters. The Astronomical Council of the Academy of Sciences of the USSR has organized a network of 66 stations for optical observations, but relies to a large extent on the help of amateur astronomers all over the country. The sputniks can best be observed shortly after sunset or before sunrise. Ordinary binoculars can be used and the sputnik's position fixed in relation to other heavenly bodies. The time of observation should be accurately noted to a fraction of a second. Even better is a photo of the sputnik made with full aperture and very sensitive film. The camera should be fixed on a stand and the aperture blocked at recorded intervals of time so as to leave a trace of the sputnik's course on the film. Reports and photographs of the satellites are sent in from

Card 1/2

26-58-2-18/48

Optical Methods for the Observation of Artificial Earth Satellites

amateur astronomers to the Astronomical Council. F.V. Yablokov, head of the Aviameteostantsiya Maykop (Maykop Aeronautical Meteorological Station) has made systematic observations of the carrier-rocket of the first satellite using free balloons and theodolite, and has suggested that the hydro-meteorological service network be conscripted into making observations of the satellites.
There is 1 photo.

ASSOCIATION: Astronomicheskii Sovet Akademii nauk SSSR, Moskva (Astronomical Council of the Academy of Sciences of the USSR, Moscow)

Card 2/2 1. Satellites--Tracking 2. Optical systems--Applications

KUKARKIN, B.V.

Conference on variable stars organized by the Hungarian Academy
of Sciences in Budapest on August 23-28, 1956. Vop.kosm. 6:333 '58.
(Budapest--Stars, Variable--Congresses) (MIRA 11:10)

AUTHOR: Kukarkin, B.V., Professor SOV-26-58-10-30/51

TITLE: The Structure of Galaxies and Metagalaxies (Stroyeniye galaktik i metagalaktiki)

PERIODICAL: Priroda, 1958, Nr 10, pp 111 - 112 (USSR)

ABSTRACT: The article deals with the XI Conference held in Brussels from 9-13 June and devoted to problems of the structure and development of the galaxies and the metagalaxy. The conference was attended by scientists from the US, USSR, and most European countries.

ASSOCIATION: Astronomicheskii sovet Akademii nauk SSSR/Moskva (The Astronomical Council of the USSR Academy of Sciences/Moscow)

1. Galaxies--Theory

Card 1/1

AUTHOR: Kukarkin, B. V., Doctor of Physical and Mathematical Sciences SOV/30-58-9-21/51

TITLE: News in Brief (Kratkiye soobshcheniya) Transactions of the XI. Solvay Conference (XI. Sol'veyevskaya konferentsiya)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, ²⁸№ 9, pp. 90-91 (USSR)

ABSTRACT: The conference was held in Brussels from June 3-13. It dealt with problems of the structure and development of galactics and metagalactics. The majority of reports were given by scientists from western countries. V. A. Ambartsumyan (USSR) reported on possible trends of development of the galactics in the light of the theories of astral development elaborated by him and based on the analysis of concrete observations. On the part of the USSR also B. V. Kukarkin attended the conference. On the last day of the conference a general discussion took place. The conference was well organized which circumstance guaranteed fertile work.

Card 1/2

KUKARKIN, B.V.; KUKARKINA, N.P.

Investigating variable stars in the globular cluster M3-NGC 5272.
Part 1. Catalog of photographic magnitudes of 81 stars in the
outer regions of the cluster. Per.zvezdy 12 no.4:291-292 Je
'58. (MIRA 13:4)

1. Gosudarstvennyy astronomicheskiy institut im.P.K.Shternberga.
(Stars, Variable)

KUKARKIN, B.V.; NOVIKOV, I.D.

BD + 62°2332. Per.zvezdy 12 no.5:366-368 N '58.
(Stars, Variable)

(MIRA 13:9)

3(1)

AUTHORS: Kukarkin, B. V., Kulikovskiy, P. G., SOV/30-58-12-9/46

TITLE: New Achievements in Astronomy (Novyye uspekhi astronomii)
On the Results of the Xth International Astronomical Congress
(K itogam X mezhdunarodnogo astronomicheskogo s"yezda)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, ¹²№ 12, pp 38 - 46 (USSR)

ABSTRACT: This congress took place in Moscow from August 12 to 20. More than 1200 scientists from 37 countries attended it. A. A. Mikhaylov was elected head of the committee for the preparation of the symposium "The earth rotation and atomic time standards" and P. P. Parenago was elected member of the organization committee of the symposium "Herzsprung-Ressell (Khertssprung-Ressell) diagram". "Explosions on the sun and their corpuscular radiation" (A. B. Severnyy), "The development of chemical elements in the stars" (A. G. Masevich), "Utilization of sputniks and "stratostates" for astronomical observations" (O. A. Mel'nikov), "Luminous power of Cepheids" (P. P. Parenago) were suggested as topics for discussion. Three unofficial symposia took place, which were opened by Soviet scientists: "Development of the element of meteorites" (V. G. Fesenkov), "The development of the earth and the

Card 1/6

New Achievements in Astronomy. On the Results
of the Xth International Astronomical Congress

SOV/30-58-12-9/46

planets" (B. Yu. Levin), and "Physics of planetary nebulae" (B. A. Vorontsov-Vel'yaminov). During the conference K. F. Ogorodnikov published the periodical "Kosmos". The participants in the conference were welcomed by F. R. Kozlov, Deputy Premier of the Council of Ministers of the USSR, and also by Academician K. V. Ostrovityanov, Vice-President of the AS USSR. The head of the Gosudarstvennyy astronomicheskii institut im. P. K. Shternberga (State Astronomical Institute imeni P. K. Shternberg), Professor D. Ya. Martynov, welcomed the directors of astronomical institutes and prominent scientists. At the opening of the conference the participants were welcomed by A. N. Kosygin, Deputy Premier of the Council of Ministers of the USSR. On behalf of the presidential committee of the AS USSR the participants in the conference were welcomed by Academician A. V. Topchiyev, Vice-President of the AS USSR. Academician V. A. Ambartsumyan, Chairman of the organization committee, spoke on the development of astrophysics. Furthermore the Soviet scientists reported on:

Card 2/6

New Achievements in Astronomy. On the Results
of the Xth International Astronomical Congress

SOV/30-58-12-9/46

- I. M. Kopylov on the diagram of hot O- and T-associations.
 - P. N. Kholopov on the analysis of the diagrams of T-associations and their relationships to the O-associations.
 - K. A. Barkhatova on the analysis of the diagrams of scattered star clusters.
 - A. G. Masevich on the development of stars with an unsteady mass.
 - V. A. Krat on possible directions in the development of stars on the Hertzsprung-Russell diagram.
 - E. R. Mustel' on the loss of mass in stars of different classes.
 - V. G. Fesenkov, G. M. Idlis on the role of corpuscular radiation in stars as an important factor of development.
 - Ye. P. Fedorov on the nutation according to values of latitude observations.
 - A. A. Nemiro, M. S. Zverev on the influence of systematic errors in star catalogues on the determination of irregularities in the rotation of the earth.
 - D. A. Frank-Kamenetskiy on the possibility of nuclear reactions in cold acceleration of the particles.
- Further lectures were given by:

Card 3/6

New Achievements in Astronomy. On the Results
of the Xth International Astronomical Congress

SOV/30-58-12-9/46

- P. E. Nemirovskiy on nuclear structure and development of the elements.
- B. A. Tverskoy, R. Z. Sagdayev on some possible nuclear processes in star atmospheres.
- A. B. Severnyy on observations by means of a sun-magnetograph.
- E. R. Mustel' explained the relationship between geomagnetical storms and the transit of flocculi through the visible center of the disk of the sun.
- S. N. Vernov, A. Ye. Chudakov on the investigation of primary components of cosmic radiation based on data determined by the second and the third Soviet sputnik.
- T. N. Nazarova and A. Dubin (USA) on the investigation of micro-meteors by means of the Soviet and American sputniks.
- V. I. Krasovskiy on Soviet investigations of the ionosphere by means of rockets and sputniks.
- Ya. L. Al'pert, L. A. Zhekulin, A. N. Kazantseva and the American scientist G. Siri on the investigation of the ionosphere by radio observations of the sputniks.
- V. P. Tsesevich on changes in the light emanating from the Soviet sputniks.

Card 4/6

New Achievements in Astronomy. On the Results
of the Xth International Astronomical Congress

SOV/30-58-12-9/46

Ye. D. Pavlovskaya on short-periodic Cepheids.

Yu. P. Pskovskiy on several revision evaluations of the
absolute size of the Cepheids.

In the Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy) a discussion on several problems of meteorite chemistry was carried out by the Komitet po meteoritike Akademii nauk SSSR (Committee for Meteoritics of the Academy of Sciences, USSR), which was attended by A. P. Vinogradov, V. G. Fesenkov, A. A. Yanvel', and L. G. Kvasha for the USSR. In the symposium on the development of the earth and the planets the USSR was represented by Ye. L. Ruskol, A. I. Lebedinskiy, B. Yu. Levin, V. S. Safronov, and V. A. Krat. In the discussion on the development of the comets the USSR delegated S. K. Vsekhsvyatskiy, V. G. Fesenkov, K. A. Shteyns, V. I. Cherednichenko, and I. S. Astapovich. The discussion on the physics of planetary nebulae was attended by B. A. Vorontsov-Vel'yaminov, G. A. Gurzadyan, N. Razmadze, and Yu. P. Pskovskiy. A new executive committee of the

Card 5/6

New Achievements in Astronomy. On the Results
of the Xth International Astronomical Congress

SOV/30-58-12-9/46

International Astronomical Union was elected. Soviet
astronomers were elected chairmen of a number of commissions.
The next conference is to take place in the USA.

Card 6/6

KUKARKIN, B.V., prof.

Structure of galaxies and of the metagalaxy. Priroda 47 no.10:
111-112 0 '58. (MIRA 11:11)

1. Astronomicheskiy Sovet AN SSSR (Moskva).
(Galaxies)

KUKARKIN, B.V.

Maxima of 15 Mira Ceti-type stars. Astron. tsir. no.190:19-20
Mr '58. (MIRA 11:9)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.
(Stars, Variable)

KUKARKIN, B.V.

Maxima of 15 Mira Ceti-type stars. Astron. tsir. no.191:14-15
My '58. (MIRA 11:9)

(Stars, Variable)

KUKARKIN, B.V.

Two variable stars. Astron. tsir. no.191:15-16 My '58. (MIRA 11:9)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga,
Moskva.

(Stars, Variable)

KUKARKIN, B.V.

Maxima of 14 Mira Ceti-type stars. Astron. tsir. no. 10:26-27
Jy '58. (NIEA 12:1)

1. Gosudarstvennyy astronomicheskiy institut im. P.L. Shternberga.
Moskva. (Stars, Variable)

KUKARKIN, B.V.

Eleventh Solvay conference. Astron.tsir. no.193:36 Jy'58.
(MIRA 12:1)

(Brussels--Cosmogony--Congresses)

KUKARKIN, Boris Vasil'yevich, prof.; RYBNIKOV, Konstantin Alekseyevich, prof.; BASEMAKOVA, Izabella Grigor'yevna; YUSHKEVICH, Adol'f Pavlovich; YANOVSKAYA, Sof'ya Aleksandrovna; SPASSKIY, Boris Ivanovich, dotsent; MIKHAYLOV, Glab Konstantinovich, starshiy nauchnyy sotrudnik; MATYNOV, D.Ya., prof., otv.red.; GORDEYEV, D.I., prof., red.; IVANENKO, D.D., prof., red.; KUDRYAVTSEV, P.S., prof., red.; KULIKOVSKIY, P.G., dotsent, red.; KHRGIAN, A.Kh., prof., red.; SHEVTSOV, N.S., prof., red.; VERKHUNOV, V.M., assistant, red.; KONONKOV, A.F., red.; YERMAKOV, M.S., tekhn.red.

[Programs of courses on the history of the physicomathematical sciences] Programmy po istorii fiziko-matematicheskikh nauk. (MIRA 12:12)
Moskva, 1959. 40 p.

1. Moscow. Universitet. 2. Orgkomitet Vsesoyuznoy mezhvuzovskoy konferentsii po istorii fiziko-matematicheskikh nauk (for Kukarkin, Rybnikov, Spasskiy, Gordeyev, Ivanenko, Kudryavtsev, Kulikovskiy, Mikhaylov, Khrgian, Shevtsov, Verkhunov, Kononkov).
(Physics--Study and teaching)
(Mathematics--Study and teaching)

SOV/26-59-3-2/47

29(1)
3(1)

AUTHOR: Kukarkin, B.V., Professor. (Moscow)

TITLE: The Launching of Cosmic Rockets and Astronomical Problems

PERIODICAL: Priroda, 1959, Nr 3, pp 7-8 (USSR)

ABSTRACT: The author points out that the first cosmic rocket launched by the USSR on January, 2, 1959, reached the second cosmic speed (11.2 km/sec) and thus, overcoming the gravity field of the earth, became an independent body of the solar system. He describes various new possibilities in space research opened up by the rocket, e.g. direct observations of the magnetic field of the moon and its radio-activity, study of cosmic rays in interstellar space, corpuscular radiation of the sun, interstellar and inter-planetary gas etc. Overcoming the third cosmic speed and the flight into inter-

Card 1/2

SOV/26-59-3-2/47

The Launching of Cosmic Rockets and Astronomical Problems

stellar space is a problem of special interest for future rocket development. Such a rocket should have a speed of over 12.3km/sec and be launched exactly in accordance with the direction of the earth's movement. In this connection, experiments testing Einstein's theory of relativity are also conceivable.

ASSOCIATION: Astronomicheskii Sovet Akademii nauk SSSR (Astronomical Council of the AS USSR)

Card 2/2